

Leader in Targeted Protein Modulation

Utilizing DEL as a Primary Discovery Engine for Targeted Protein Modulation

UCI Pharm Sci Spring Seminar Series February 8, 2023

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Nurix Is Focused on Ligase Drug Discovery with State-of-the Art Scientific Infrastructure

Mission Bay, San Francisco



- >\$300 million in collaboration revenue to date
- ~300 FTEs
- Experienced medicinal chemistry team with integrated structurebased design chemistry automation capabilities
- Biophysics, biochemistry, proteomics, cell biology and custom affinity screening capabilities
- Pharmacology PK/PD capabilities enabled by state-of-the-art inhouse vivarium
- Clinical team prosecuting four wholly owned clinical programs in Phase 1 studies
- We are hiring! Visit https://www.nurixtx.com/job-openings/



Nurix Drugs Engage Ligases for the Treatment of Cancer

Targeted Protein Modulation: TPM = TPD + TPE

Harness ligases to decrease specific protein levels

Targeted Protein
Degradation
(TPD)

A Powerful Cellular System



Ubiquitin is ligated to target proteins to tag them for degradation by the proteasome

Targeted Protein Elevation (TPE)

Inhibit ligases
to increase
specific protein levels



Nurix Is Advancing Four Wholly Owned Clinical Programs with a Deep Pipeline of Proprietary and Partnered Novel Targets

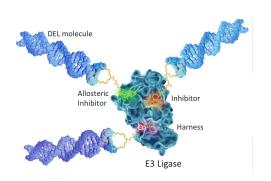
MOA	Drug program	Target/delivery	Therapeutic area	Preclinical	Phase 1	Phase 2	Phase 3
TPD	NX-2127 Degrader	BTK-IKZF Oral	B-cell malignancies	 ✓ Advanced to Ph 1b in CLL ✓ Efficacy established in CLL ✓ Single agent CR in DLBCL 		ablished in CLL	
	NX-5948 Degrader	BTK <i>Oral</i>	B-cell malignancies			✓ Demonstrate	patient in U.K. ed BTK degradation for U.S. enrollment
TPE	NX-1607 Inhibitor	CBL-B <i>Oral</i>	Immuno-Oncology				on of CBL-B h novel biomarker for U.S. enrollment
	DeTIL-0255 Cell therapy	Ex vivo CBL-B inhibition	Gynecologic malignancies			✓ Dosed first p✓ Completed s	
TPM	Wholly owned & partnered	15 targets	Multiple				





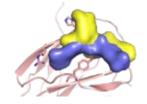
Nurix's DELigase Protein Modulation Discovery Platform

DEL Discovery



> 5 billion drug-like compounds that can be easily screened against hundreds of proteins to identify starting points for therapeutic discovery

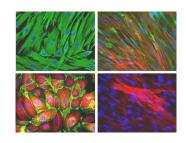
Rational and Empirical Chemistry





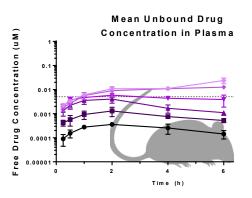
Structure Based Drug
Design combined with
chemistry automation
enables broad exploration of
lead-like chemical space for
each program

Direct-to-Cell Biology Capabilities



High throughput cellular assays monitor protein levels and biological phenotypes to assess impact on biology

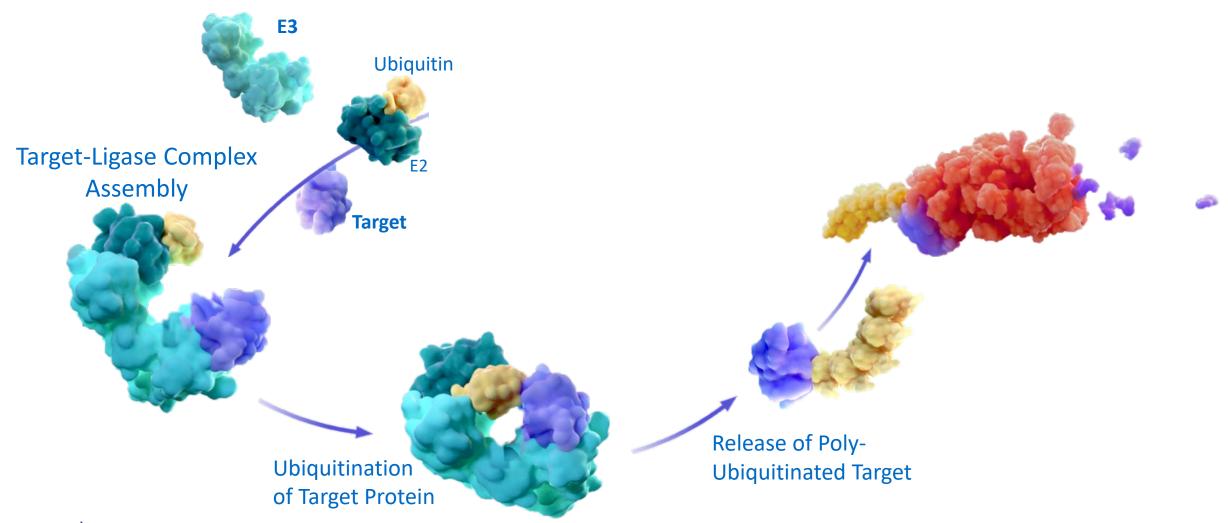
Scaled Screening for in vivo exposure



Capacity to screen for ideal *in* vivo drug exposure profile and assess impact on disease biology

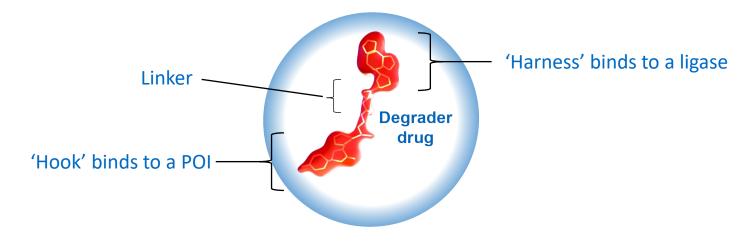


What Is Targeted-Protein Degradation (TPD)? The ubiquitin proteosome system degrades proteins



What Is Targeted-Protein Degradation (TPD)?

Harnessing the ubiquitin proteosome system to degrade a protein of interest (POI)

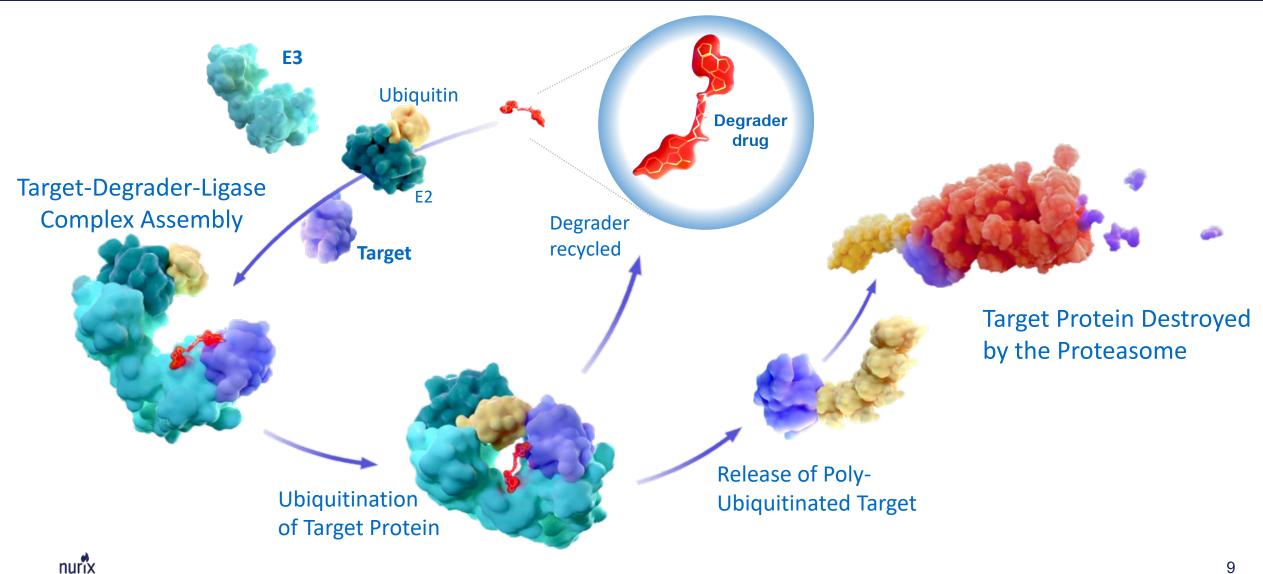


A Degrader contains three moieties:

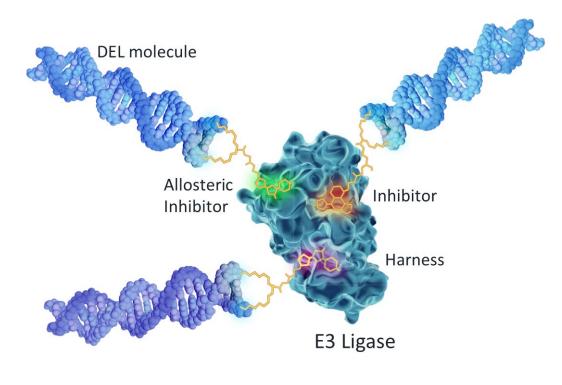
- 1. A ligase 'harness'
- 2. A linker
- 3. A 'Hook' to the POI



What Is Targeted-Protein Degradation (TPD)? Harnessing the ubiquitin proteosome system to degrade a protein of interest (POI)

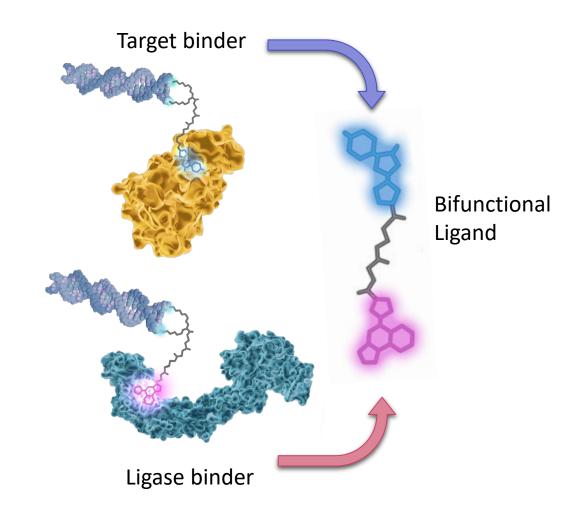


- Affinity-based ligand discovery is the ideal approach to enable TPD
 - Affinity-based screening is MoA agnostic for E3 ligases we can identify ligands for TPD and inhibitors for TPE from the same screen
- DNA attachment provides initial handle for bifunctional molecule synthesis
- Combinatorial design enables rapid hit follow up and optimization
- Low capital investment and per screen cost allows for a broad exploration of target and chemical space



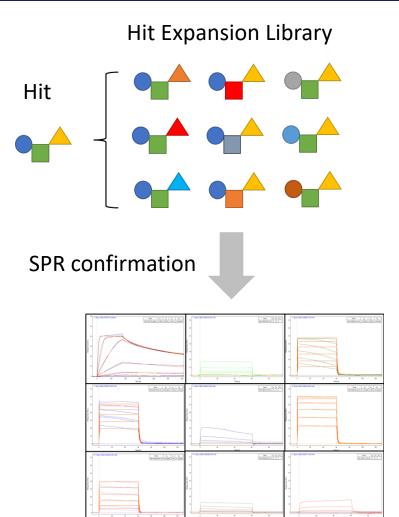


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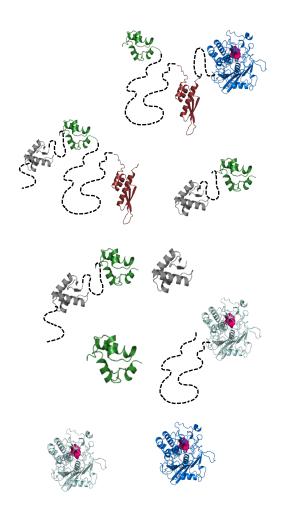


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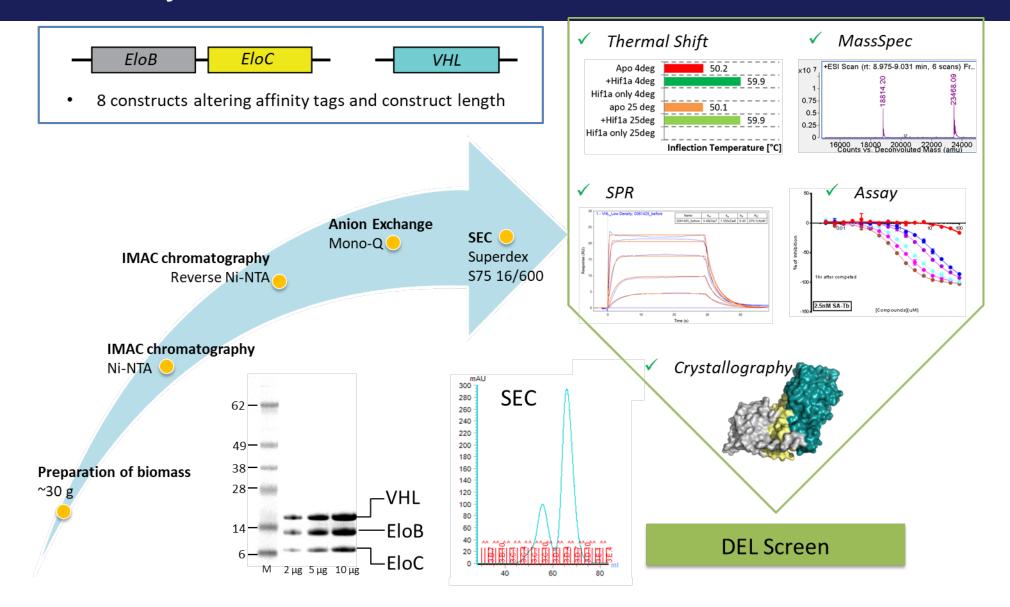


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Protein Quality Is Fundamental to DEL Screen Success

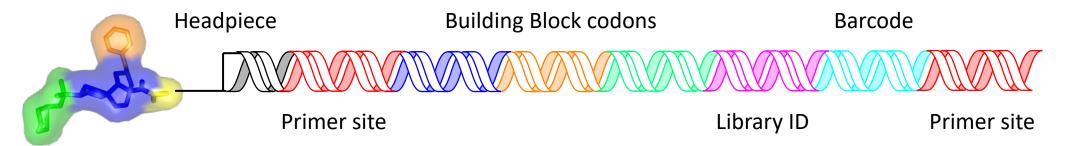


Anatomy of a DEL Molecule

DNA-based encoding schemes allow for screening and sequencing of pooled libraries across numerous binding conditions in parallel.

Small molecule "warhead"

*Not to scale



Headpiece – short, covalently-linked, DNA duplex – the handle for chemistry and molecular biology

Primer sites – for quantitation, amplification, and sequencing

Codons – building block identities

Library ID – chemistry carried out on the building blocks

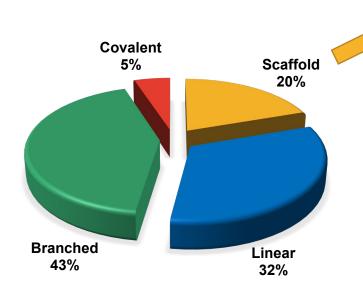
Barcode – unique molecular identifier for every molecule in the screen



Custom Scaffold-Based DELs Enable Nurix To Identify Binders to Challenging Protein Surfaces

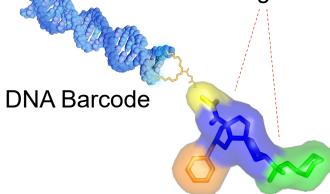
Nurix DEL Collection

- >5 billion unique structures
- Includes proprietary, 3D complex, custom scaffolds



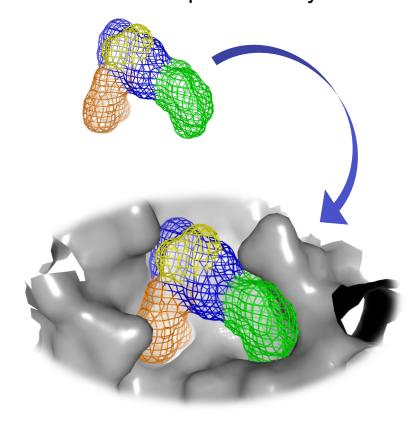
Scaffold Libraries Proving Essential for Delivering Ligands for "Undruggable" Targets (sole source of hits for 75% of these targets)

Three-dimensional design



Our proprietary scaffold DELs provide unique geometry and high sp3 character, allowing molecules to achieve optimal pocket fit

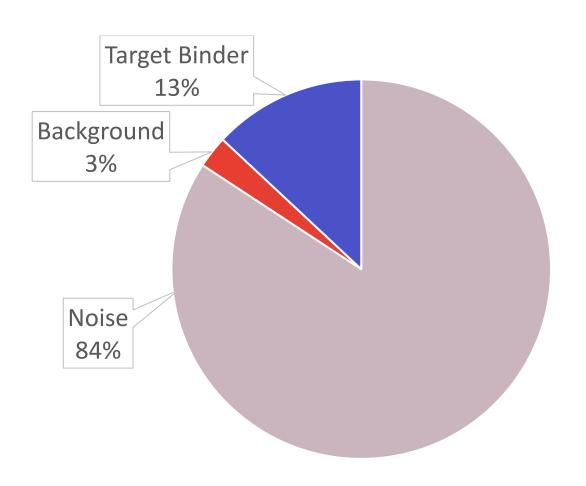
Nurix scaffold designs show high pocket complementarity





Composition of DEL Screening Outputs

- Most of the DNA-linked compounds sequenced at the end of a selection are noise or background (matrix binders, non-specific protein binding, other enrichment not specific to the target)
 - Noise can be eliminated by experimental (replicates) OR analytical (thresholding) methods
 - Elimination of background signal requires the combination of experimental AND analytical methods.

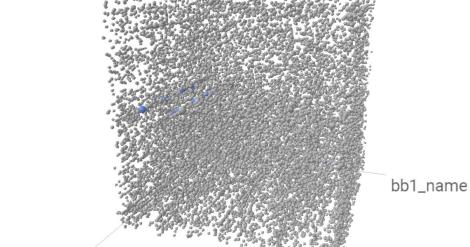




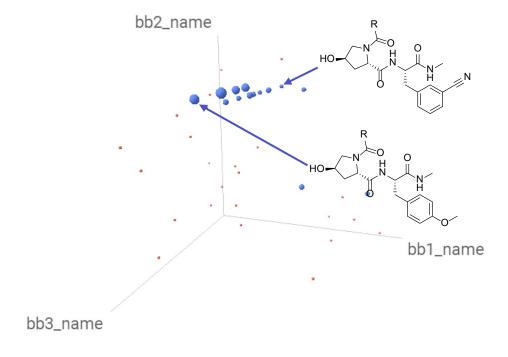
De-noising Example – VHL Replicates

• Noise by its nature is not reproducible, but real binding events are.

All ligands present in a single screening condition bb2_name



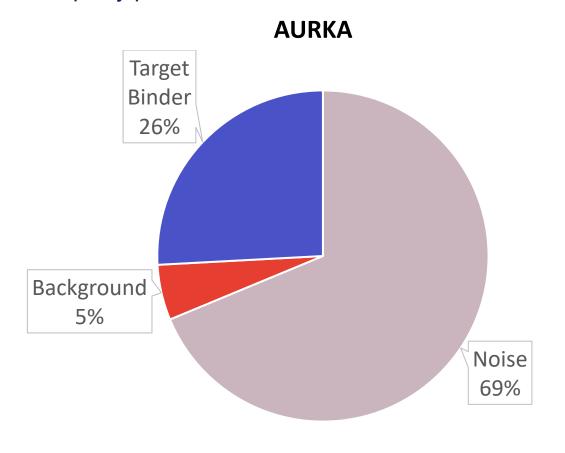
All ligands present in all three replicates

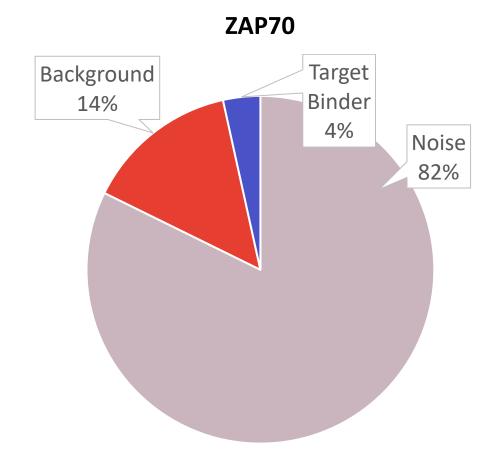


bb3_name

Target Binder Yields Vary Across Screens

Not all screens are equally productive at the sequencing level, but with the right analysis they can be
equally productive sources of hits.

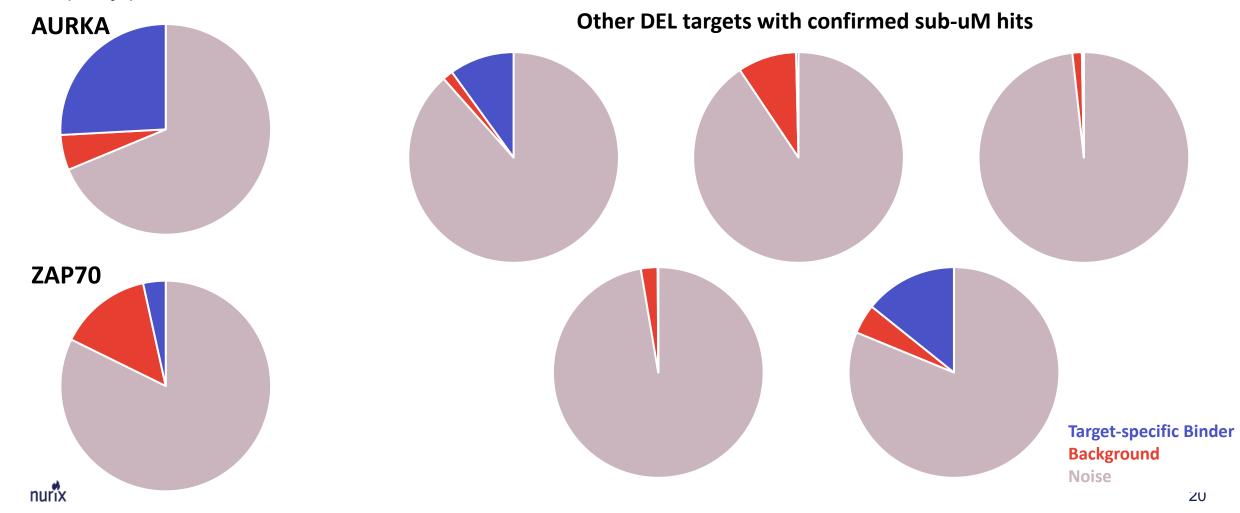




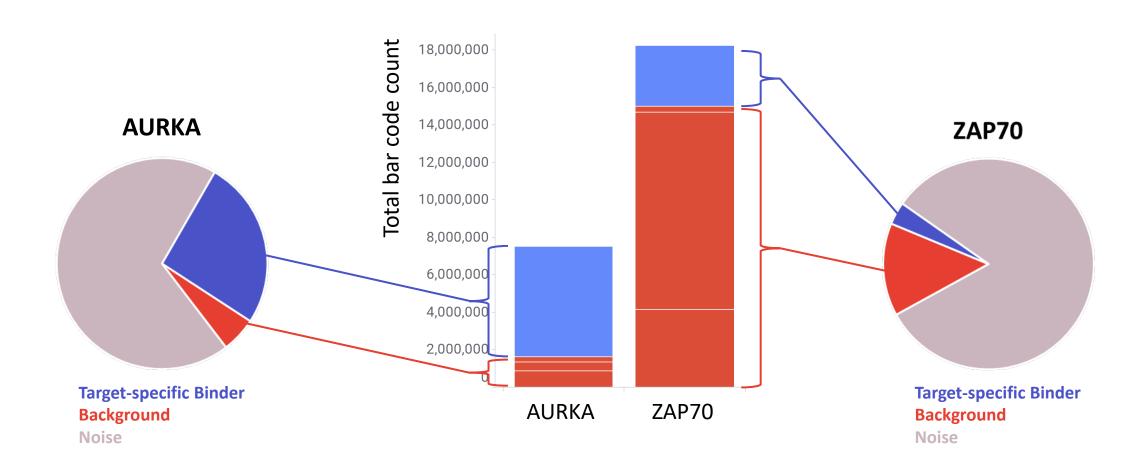


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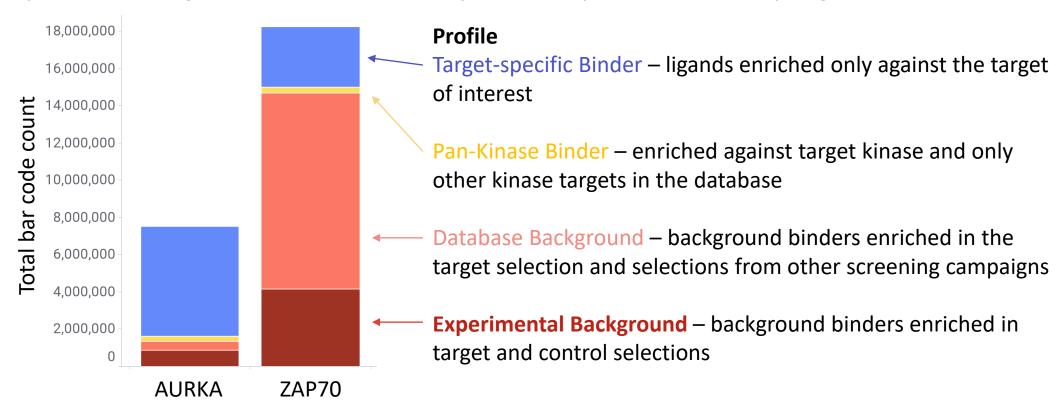
Zooming in on the Enriched Fraction



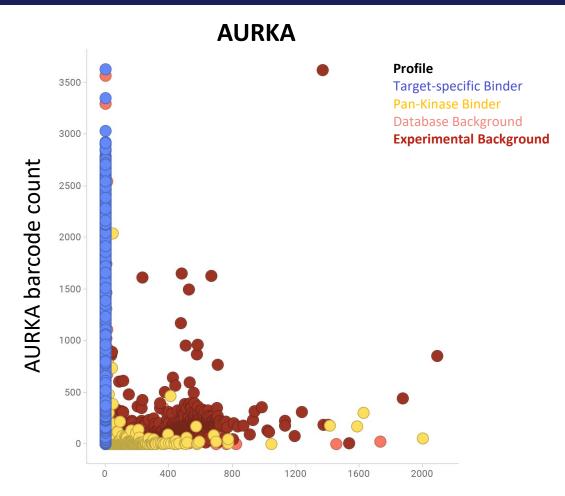


A Robust Database Is Necessary for Effectively Identifying Background

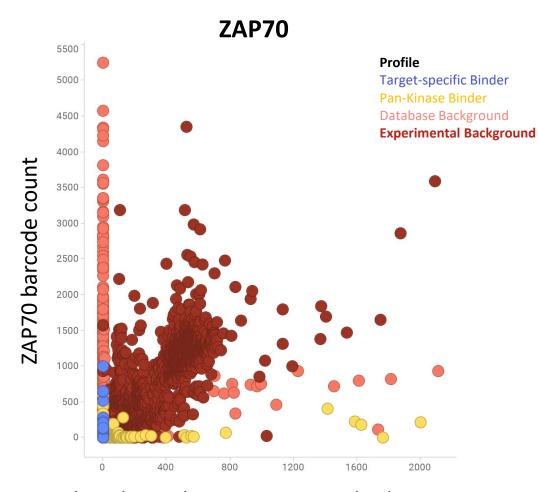
- A combination of experimental AND analytical methods are required to effectively eliminate background.
- Not all background binders are identified in control screens.
- The capacity of the platform enables screening across many targets, which powers a database that can
 effectively remove background binders and identify selective (and non-selective) target binders.





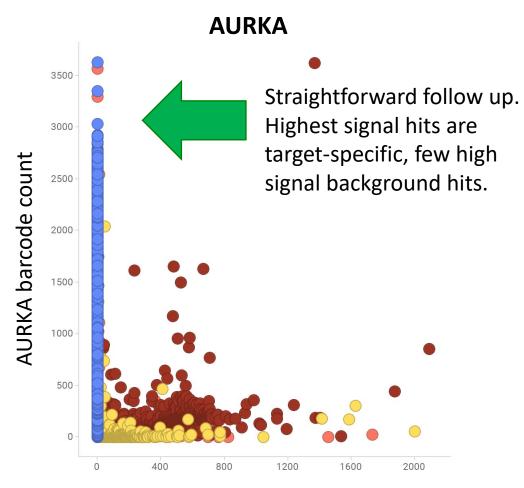


Highest barcode count in control selections

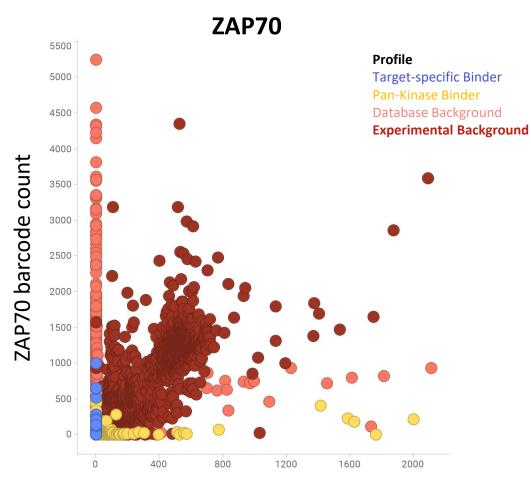


Highest barcode count in control selections



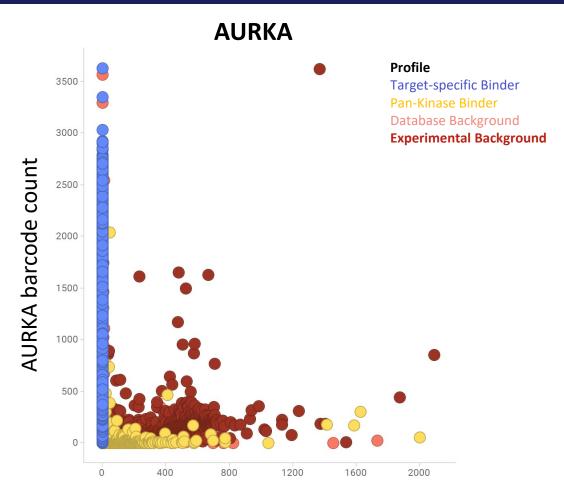


Highest barcode count in control selections

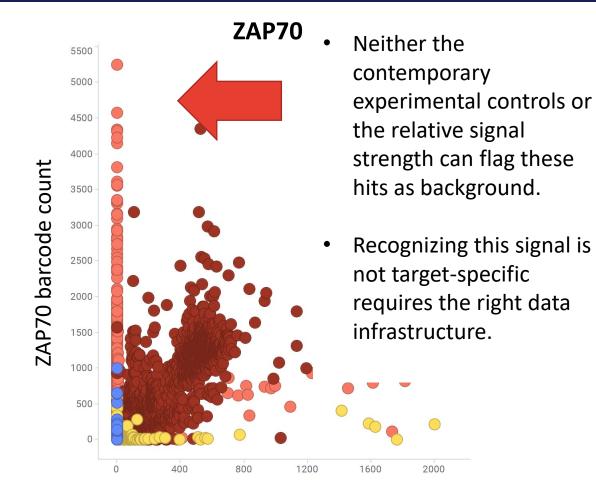


Highest barcode count in control selections



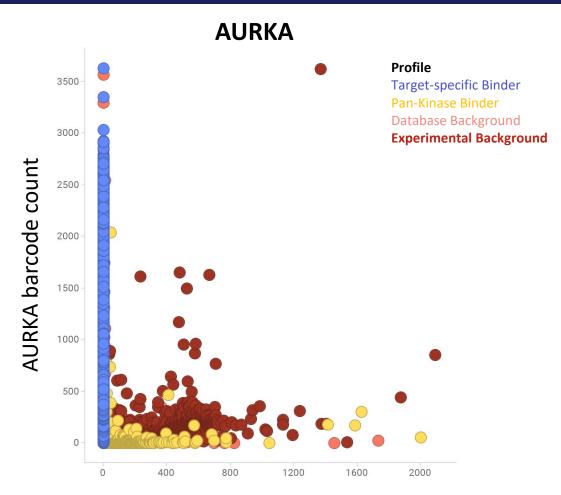


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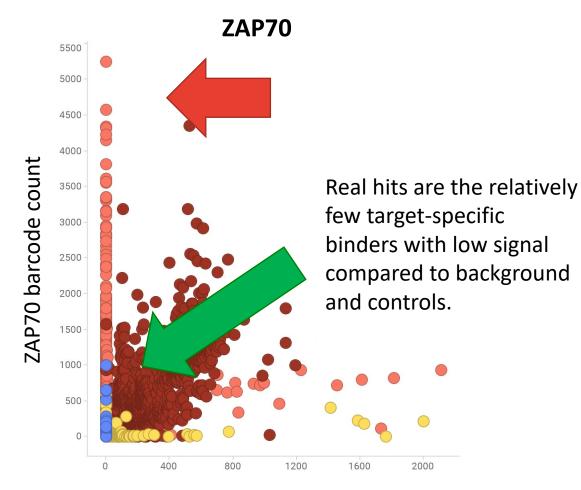


Highest barcode count in control selections





Highest barcode count in control selections

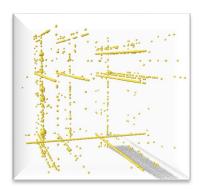


Highest barcode count in control selections



Wading Through the Data - Nurix's Analysis and Follow Up Pipeline Is Designed To Access Broad Chemical Space

Large complex data sets require automated solutions to accelerate hit ID



DEL Screen and filtering for target-specific binders



Automated Structure Analysis and Clustering





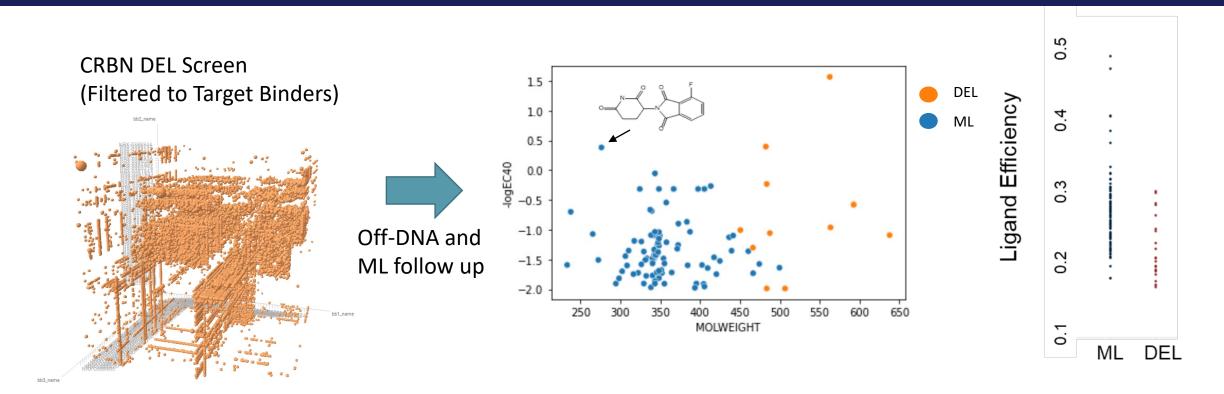
Hit Resynthesis (on- and off-DNA)

Machine Learning and Similarity Virtual Screening

Follow up	Source	Volume	Hit Confirmation Assay
Off-DNA	Single compound synthesis	10s	SPR (Quantitative)
On-DNA	Parallel Synthesis of single recipes	100s	ASMS (Qualitative)
ML/Similarity	Catalog order	100s	ASMS then SPR (Quantitative)



Leveraging Computational Methods To Search Beyond DEL Space To Discover Potent and Diverse CRBN Binders



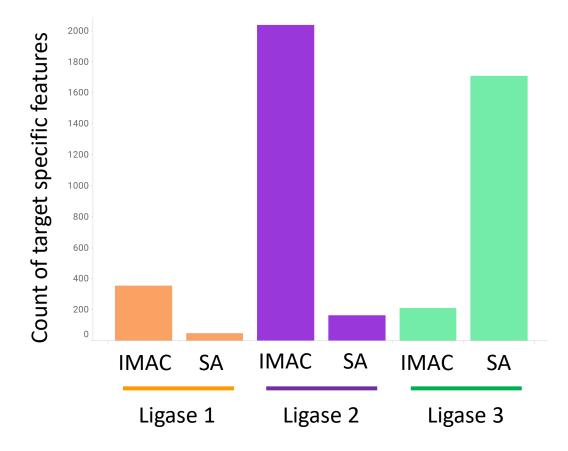
Combining traditional and computationally-driven DEL follow up allows us to discover more binders in desirable chemical space and maximize the diversity of confirmed hits.



Screening and Follow Up Capacity – Finding the Most Productive Spaces for Novel Targets

- Screening multiple ligases in parallel, with multiple constructs and tags for each ligase
- Nurix routinely screens multiple target constructs immobilized through different matrices
 - The most productive construct/matrix combinations needs to be determined empirically

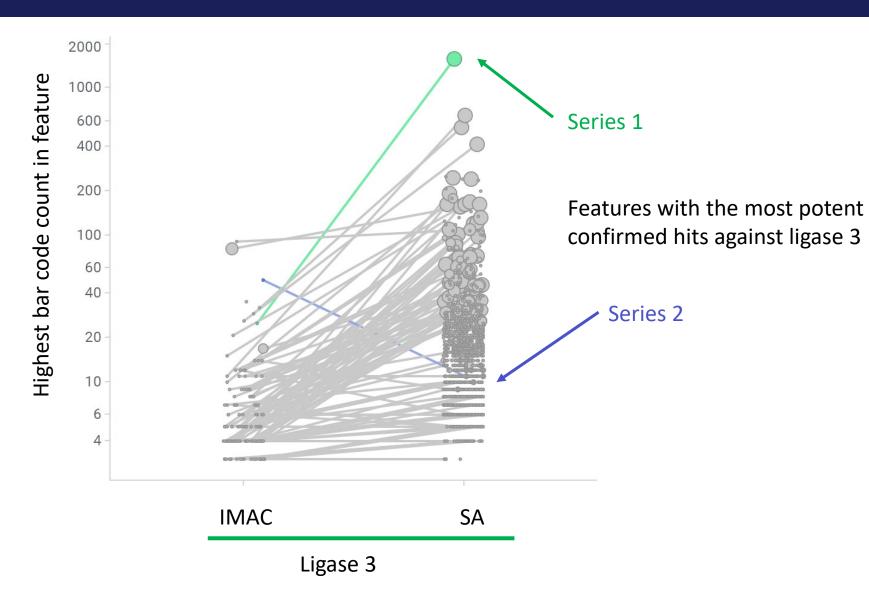
Example – three ligases screened in parallel using Immobilized metal affinity (IMAC) and streptavidin (SA) beads



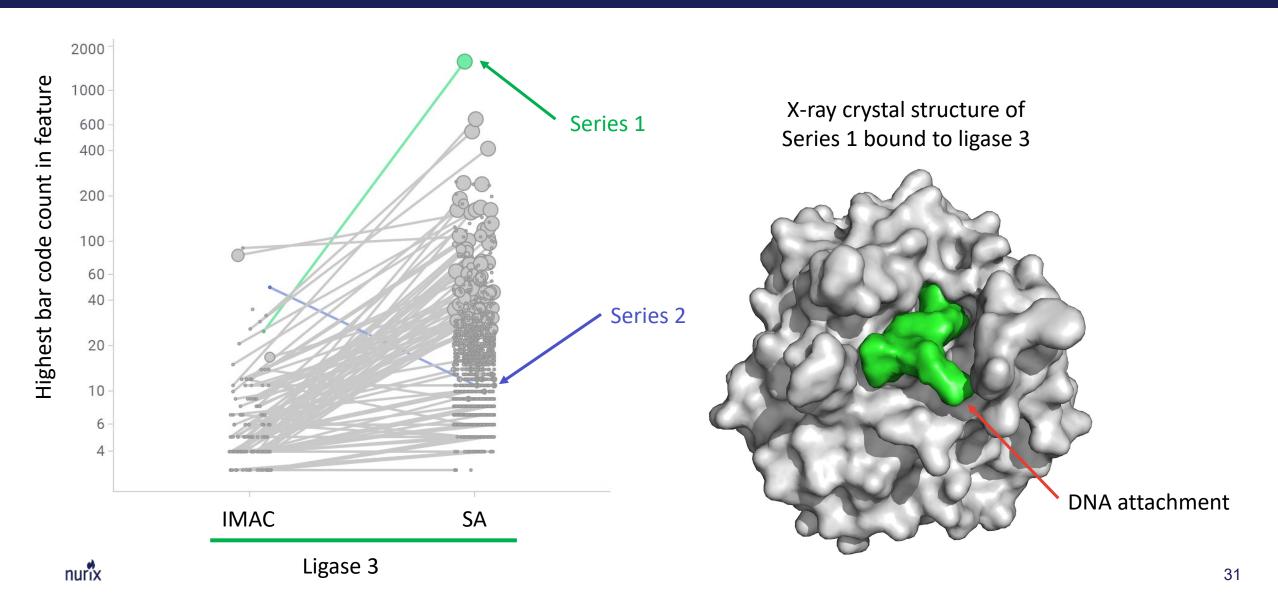


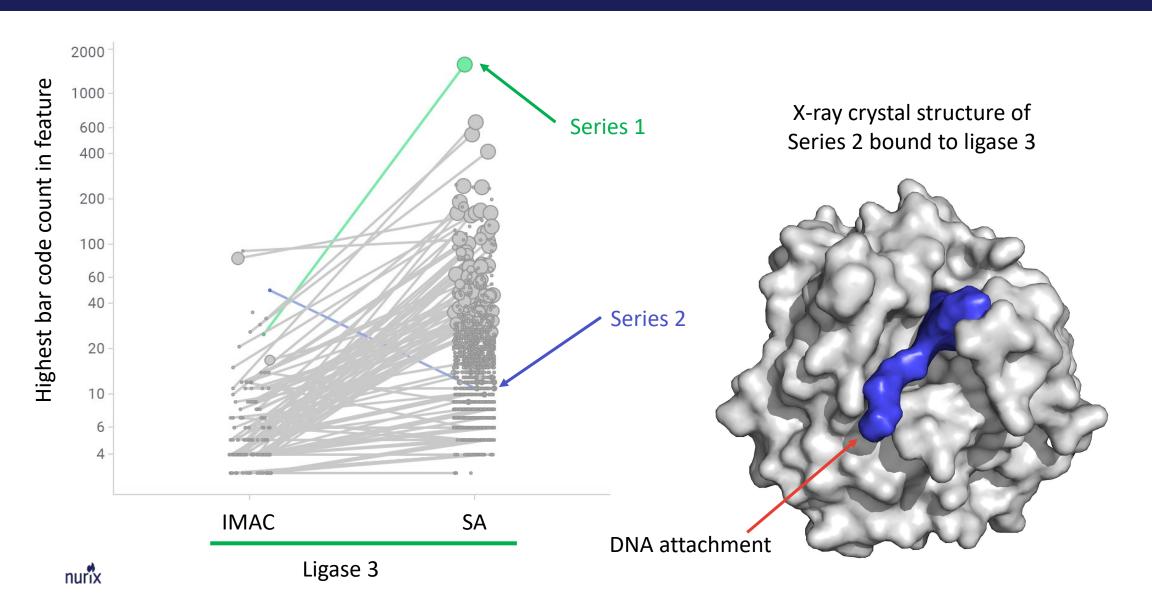
Lines link identical features between selections

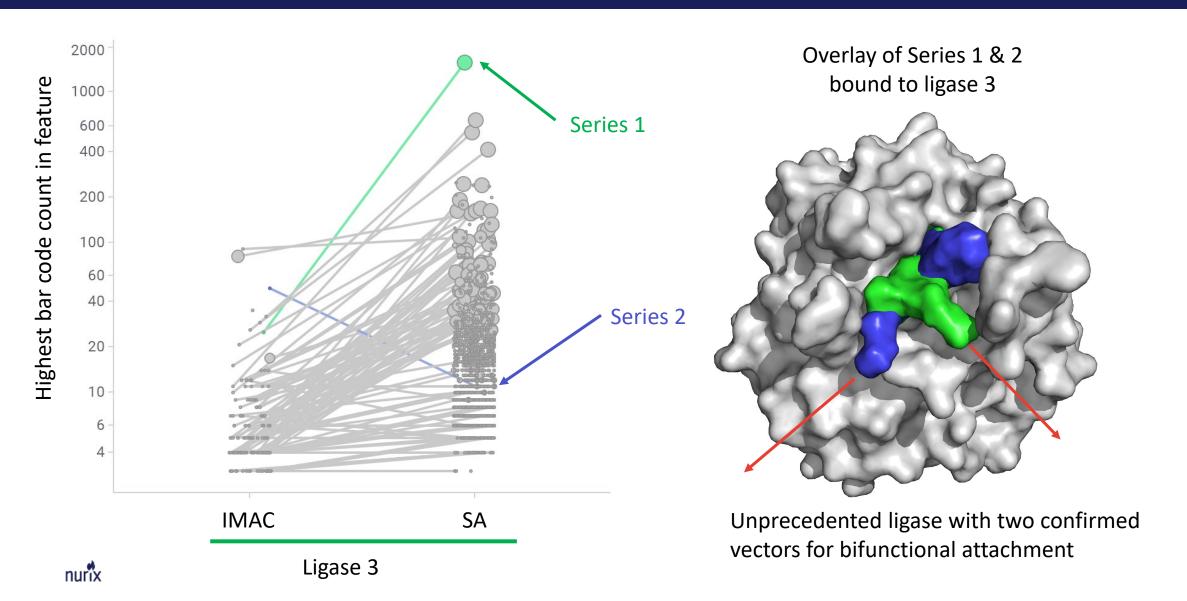
Size denotes number of ligands within the feature





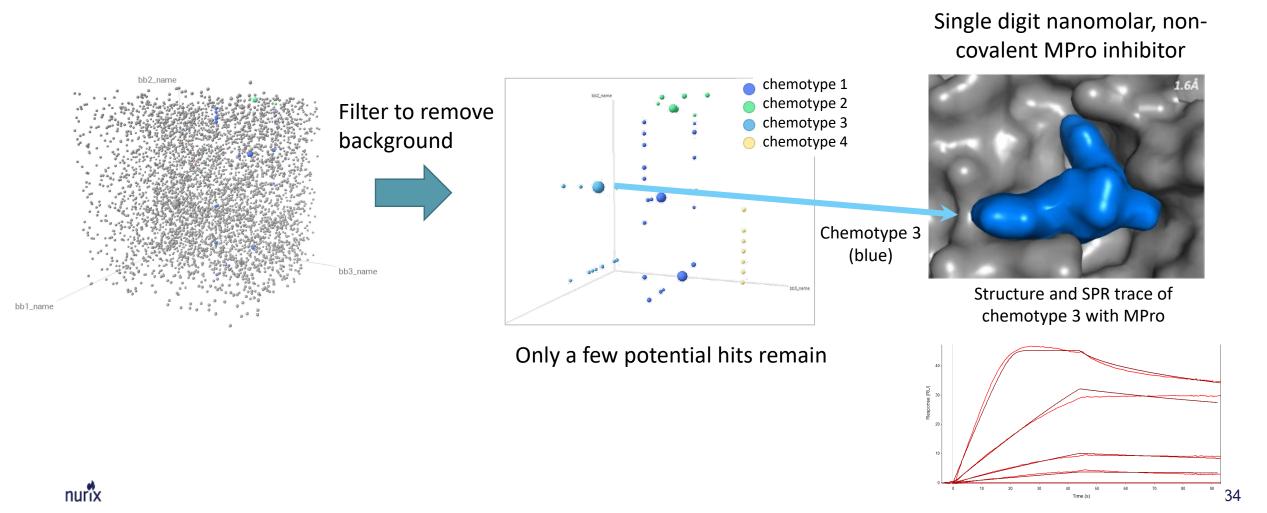






Quality of Hits Is Not Proportional to Quantity of Screen Output

Filtering away the noise and background reveals a small set of target specific binders with SAR



Conclusions

- DEL provides significant advantages as a ligand discovery platform for targeted protein modulation
- These advantages can only be realized when coupled to high-quality, well-validated target proteins and a diverse collection of libraries.
- Leveraging the low cost per screening condition and the ability to broadly scan the chemical space of hits are key to maximizing the productivity of the platform.
- Assembling a comprehensive database of screening results from a broad exploration of target space is key to navigating through the data to find the highest quality hits.



Thank You!

